

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

1. Authorization for this examiner's amendment was given in a telephone interview with Mr. Han K. Gim on 11/17/08.

2. In the claims:

Rewrite the claims as follows:

a. Claim 1

A computer implemented method for handling safe exceptions, comprising:
receiving an event;
determining an exception handler for the event;
determining that the exception handler is valid by comparing the exception handler to at least one list of valid exception handlers and determining that the exception handler is unaltered, and otherwise determining that the exception handler is invalid; and

executing the exception handler when the exception handler is valid, wherein said at least one list of valid exception handlers is generated by:

identifying one or more valid exception handler associated with software components to be compiled;

including a safe exception section with each compiled software component, said safe exception section comprising addresses of valid exception handlers in the software component;

marking the compiled software component when the compiled software component references or contains at least one of said one or more valid exception handlers, said marking operable to identify that the software component is associated with a valid exception handler;

generating at least one list of valid exception handlers, said at least one list comprising the valid exception handlers included or referenced in the compiled software components;

storing said at least one list of valid exception handlers in a protected area during program execution.

b. Claim 4

The method of claim 1, further comprising retrieving a list of valid exception handlers from a storage device and comparing the exception handler to the list of valid exception handlers in determining if the exception handler is valid.

c. Claim 7

The method of claim 1, further comprising, if the exception handler is valid, determining whether the exception handler handles the event, and if so, executing the exception handler, and otherwise, retrieving a second exception handler from information on a stack and continuing processing with determining if the second exception handler is valid.

d. Claim 8

The method of claim 1, further comprising terminating the method if the exception handler is invalid.

e. Claim 9

The method of claim 1, further comprising generating an error message if the exception handler is invalid.

f. Claim 10

The method of claim 1, further comprising, if the exception handler is valid, verifying other data for the event.

g. Claim 12

A computer-readable storage medium having stored thereon computer-executable instructions for handling safe exceptions, the computer-executable instructions comprising instructions for:

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receiving an event;

determining an exception handler for the event;

determining that the exception handler is valid by comparing the exception handler to at least one list of valid exception handlers and determining that the exception handler is unaltered; and otherwise determining that the exception handler is invalid; and

executing the exception handler when the exception handler is valid, wherein said at least one list of valid exception handlers is generated by:

identifying one or more valid exception handler associated with software components to be compiled;

including a safe exception section with each compiled software component, said safe exception section comprising addresses of valid exception handlers in the software component;

marking the compiled software component when the compiled software component references or contains at least one of said one or more valid exception handlers, said marking operable to identify that the software component is associated with a valid exception handler;

generating at least one list of valid exception handlers, said at least one list comprising the valid exception handlers included or referenced in the compiled software components;

storing said at least one list of valid exception handlers in a protected area during program execution.

h. Claim 15

The computer-readable storage medium of claim 12, having further computer-executable instructions for retrieving a list of valid exception handlers from a storage device and comparing the exception handler to the list of valid exception handlers in determining if the exception handler is valid.

i. Claim 18

The computer-readable storage medium of claim 12, having further computer-executable instructions for, if the exception handler is valid, determining whether the exception handler handles the event, and if so, executing the exception handler, and otherwise, retrieving a second exception handler from information on a stack and continuing processing with determining if the second exception handler is valid.

j. Claim 19

The computer-readable storage medium of claim 12, having further computer-executable instructions for terminating the method if the exception handler is invalid.

k. Claim 20

The computer-readable storage medium of claim 12, having further computer-executable instructions for generating an error message if the exception handler is invalid.

I. Claim 21

The computer-readable storage medium of claim 12, having further computer-executable instructions for, if the exception handler is valid, verifying other data for the event.

m. Claim 23

A system for executing safe exceptions, comprising:

at least one processor; and

at least one memory communicatively coupled to said at least one processor, the memory having stored therein computer-executable instructions for implementing:

receiving an event;

determining an exception handler for the event;

determining that the exception handler is valid by comparing the exception handler to at least one list of valid exception handlers and determining that the exception handler is unaltered, and otherwise determining that the exception handler is invalid; and executing the exception handler when the exception handler is valid, wherein said at least one list of valid exception handlers is generated by:

identifying one or more valid exception handler associated with software components to be compiled;

including a safe exception section with each compiled software component, said safe exception section comprising addresses of valid exception handlers in the software component;

marking the compiled software component when the compiled software component references or contains at least one of said one or more valid exception handlers, said marking operable to identify that the software component is associated with a valid exception handler;

generating at least one list of valid exception handlers, said at least one list comprising the valid exception handlers included or referenced in the compiled software components;

storing said at least one list of valid exception handlers in a protected area during program execution.

n. Claim 36 (Canceled)

o. Claim 37 (Canceled).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles E. Anya whose telephone number is 571-272-3757. The examiner can normally be reached on 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Meng-Ai An/
Supervisory Patent Examiner, Art Unit 2195

cea.